

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
28 August 2003 (28.08.2003)

PCT

(10) International Publication Number  
**WO 03/070271 A3**

(51) International Patent Classification<sup>7</sup>: **A61K 39/00, 39/02, 39/12, C07K 16/28, 14/705, C12N 15/12, 15/33, 15/31, 15/62, 15/63**

(21) International Application Number: **PCT/GB03/00811**

(22) International Filing Date: **25 February 2003 (25.02.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
0204348.7 25 February 2002 (25.02.2002) GB  
0223947.3 15 October 2002 (15.10.2002) GB

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(81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

(84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
**18 December 2003**

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**WO 03/070271 A3**

(54) Title: **NOVEL COMPLEXES FOR INDUCING AN IMMUNE RESPONSE**

(57) Abstract: The invention relates to induction of immune responses against target antigens using Fas ligand as an adjuvant. Melanoma cell lines transfected with FasL are shown to be rejected more efficiently than untransfected cells, and rejection is shown to be antibody-mediated. The invention provides immune complexes comprising target antigens and Fas ligand, pharmaceutical compositions comprising such immune complexes, and methods for generating immune responses, as well as methods for identifying cell-specific antigens, particularly tumour specific antigens, using cells expressing FasL.

**INTERNATIONAL SEARCH REPORT**

International Application No. .

PCT/GB 03/00811

A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	A61K39/00	A61K39/02	A61K39/12	C07K16/28	C07K14/705

C12N15/12 C12N15/33 C12N15/31

C12N15/62

C12N15/63

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, EPO-Internal, WPI Data, PAJ, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SEINO KEN-ICHIRO ET AL: "Antitumor effect of locally produced CD95 ligand." NATURE MEDICINE, vol. 3, no. 2, 1997, pages 165-170, XP002076955 ISSN: 1078-8956 cited in the application abstract page 165, right-hand column page 166, left-hand column, paragraph 1 page 167, left-hand column, paragraph 3 - page 167, right-hand column, paragraph 1 - paragraph 2 page 168, left-hand column, paragraph 1 - paragraph 3	1-3, 6, 7, 12, 13, 15-19
Y	---	8-10 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex

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"&" document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

14 October 2003

03/11/2003

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 03/00811

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WALKER PAUL R ET AL: "Tumor expression of Fas ligand (CD95L) and the consequences." CURRENT OPINION IN IMMUNOLOGY, vol. 10, no. 5, October 1998 (1998-10), pages 564-572, XP004327282 ISSN: 0952-7915 page 564, left-hand column page 566, left-hand column page 565, left-hand column</p> <p>---</p> <p>SHIMIZU M ET AL: "Induction of antitumor immunity with Fas/APO-1 ligand (CD95L)-transfected neuroblastoma neuro-2a cells." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD.: 1950) UNITED STATES 15 JUN 1999, vol. 162, no. 12, 15 June 1999 (1999-06-15), pages 7350-7357, XP002255930 ISSN: 0022-1767 abstract</p> <p>---</p> <p>WO 98 26061 A (UNIV CALIFORNIA) 18 June 1998 (1998-06-18)</p> <p>page 53, line 19 - line 25 claims 11,20,50,55</p> <p>page 7, line 16 - line 30</p> <p>page 8, line 17 - line 18</p> <p>page 54, line 3 - line 8</p> <p>page 53, line 32 - line 34</p> <p>---</p>	1-3,6,7, 12,13, 15-19
P,X	<p>TADA YUJI ET AL: "T cell dependent and independent antitumor immunity generated by the expression of Fas ligand on mouse lung carcinoma cells." INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, vol. 9, no. 3, March 2002 (2002-03), pages 281-285, XP009017374 ISSN: 1107-3756 the whole document</p> <p>---</p>	1-3,6,7, 12,13, 15-19
Y	<p>ONIZUKA SHOZABURO ET AL: "Tumor rejection by in vivo administration of anti-CD25 (interleukin-2 receptor alpha) monoclonal antibody." CANCER RESEARCH, vol. 59, no. 13, 1 July 1999 (1999-07-01), pages 3128-3133, XP002255931 ISSN: 0008-5472 the whole document</p> <p>---</p>	8-10
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## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB 03/00811

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	SIMON ANNA KATHARINA ET AL: "Fas ligand breaks tolerance to self-antigens and induces tumor immunity mediated by antibodies." CANCER CELL, vol. 2, no. 4, October 2002 (2002-10), pages 315-322, XP002255932 October, 2002 ISSN: 1535-6108 the whole document .....	1-27

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Information on patent family members

International Application No.

PCT/GB 03/00811

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